

IN THE DRAWING

Please amend the Figs. 1 to 5 as the attached amended copy. In the amendment of the figure, the figures 1 to 3 are added with "Prior Art" and Figs. 4 and 5 are added with numerals 241, 241, 251, 252. No other portion is amended. Thereby, no new matter is added.

## **REMARKS**

Very thanks for Examination's suggestion and thanks for finding some citations about the present invention, thereby, the applicant may know more information about the invention. This case has been carefully reviewed and analyzed in view of the office action. All details of the reference prior arts are fully considered and compared with the present invention.

## **ABOUT THE REJECTION SPECIFICATION**

Responsive to the objections and rejections made of the Examiner in office action. We have amended the specification, claims and abstracts. All the errors disclosed in that office action has been corrected according to the Examiner's indications disclosed in the official action.

## **ABOUT THE REJECTION OF DRAWINGS**

Figs. 1 to 5 are amended as the attached amended copy. In the amendment of the figure, the figures 1 to 3 are added with "Prior Art" and Figs. 4 and 5 are added with numerals 241, 241, 251, 252. No other portion is amended. Thereby, no new matter is added

In the amendment, the teeth of the first, second and third gears are indicated 24, 241, 242 instead of the original 24. The recesses 25 for the first, second and third gears are indicated as 25, 251, 252 so that the confusions in the indications of teeth and recess are resolved.

## **ABOUT CLAIM REJECTION OF 35USC103**

Indeed the citations disclose some features of the present invention, and the applicant agrees with these viewpoints, however applicant discovers that some main features of the present invention are not disclosed in the citation

which can form the novelty and inventive step of the present invention.

To illustrate the novelty of the present invention and overcome the objection from the citations, the applicant decides to amend claim 1 as the following. The claim 2 is remained in the original state. The amendment of claim 1 is based on the original claim 1 and the Figs. 4 and 5. Thereby, it is assured that the new claims are based on the original claim and specification and thus no new matter is added. The relation of the new claims with respect to the original claims are shown in the following.

### **CLAIMS SHOW CHANGES AND NUMERALS FOR DISCUSSING IN THE REMARK**

Claim 1. (Currently Amended) An integrally formed gear set with a plurality of gears comprising a first gear 21, a second gear 22 and a third gear 23; each of the first gear 21, second gear 22 and third gear 23 being formed with a plurality of teeth 24, 241, 242 and a plurality of recess portions 25; a diameter of the second gear 22 being smaller than that of the first gear 21 and the diameter of the third gear 23 being smaller than that of the second gear 22; the teeth 24 and recess portions 25 being alternatively arranged; each gear surface of the second gear 22 and third gear 23 being vertically extended with protruding rings; an outer side of each the protruding ring having a plurality of protruding sheets 26 which are vertical to a plurality of one of surfaces of the first gear 21 and the second gear 22; a concave portion 27 is formed between two adjacent protruding sheets 26 being formed by a plurality of connecting sheets 26 and a plurality of concave portions 27; each protruding connecting sheet 26 being vertically extended from a respective recess portion 25; the concave portion 27 being between two adjacent recess portions 25; the third gear 23 having an assembling

hole 230 at a center thereof for assembling with a rod; and  
wherein the first, second and third gears are formed integrally.

~~wherein the first, second and third gears 21, 22, and 23 are formed by a sheet, initially, the sheet is plane and then is formed as a stepped structure containing three layers which are then formed the first gear, second gear and third gears; the rings between two gears are stripped with a plurality of teeth which are bent to be at the same plane of the second and third gears; the portions of the rings unstripped are remained as the concave portions.~~

Claim 2. (Original) The integrally formed gear set with a plurality of gears as claimed in claim 1, wherein other gear is further protruded from the gear set so that the number of gear is more than three.

#### **DISCUSSION ABOUT THE NOVELTY THE PRESENT INVENTION**

each gear surface of the second gear 22 and third gear 23 being vertically

##### **(A) For the citation USP 4,380,445**

(1) The first feature of the present invention is that:

~~each gear surface of the second gear 22 and third gear 23 being vertically extended with protruding rings;~~

See Figs. 2, 4, and 7 of the citation '445, it is illustrated that the rings between gear surfaces 1, 2, 3 is not vertical to the gear surfaces 1, 2 and 3. It should be noted that in Fig. 6, the indications 8, 9 are spacers instead of the rings of the present invention.

(2) In the amended claim 1, we have clearly defined the protruding sheets as the following:

~~"an outer side of each the protruding ring having a plurality of protruding~~

sheets 26 which are vertical to a plurality of one of surfaces of the first gear 21 and the second gear 22, a concave portion 27 is formed between two adjacent protruding sheets 26”

Thus the confusion about the claims disclosed in the office action can be resolved by above definition.

However see Fig. 5 of the citation ‘445, it is illustrated that the surfaces between the gears 1, 2, 3 are smooth surfaces without protruding sheets.

(3) In the present invention, the first, second and third gears are formed integrally.

However the citation ‘445 dose not disclose that the gear set can be integral formed.

#### **(B) For the citation EP047927,**

The citation disclosed a gear set for a bicycle comprising three and more gears such that each descending gear has a smaller diameter than a previous gear. However the citation ‘927 still has no the function disclosed above (1) to (3)

Thus, the citation ‘927 and ‘445 still has the features in above (1) and (3)

#### **(C) RESULT**

Since in above discussion, it is apparent that no prior art has the features of the present invention, especially in new claim 8. Furthermore, as we know that no other prior art has features of the present invention. Thus, the present invention is novel and inventive.

**If there is any error in the specification, or claims, applicant requests and authorizes Examiner to amend the claims, specification and drawings**

**of the present invention so that they can match the requirement of U. S. Patent. Attentions of Examiner to this matter are greatly appreciated.**

**It is now believed that the subject Patent Application has been placed in condition for allowance, and such action is respectively requested.**

Respectfully submitted.

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Dated: 05 / 2 /2006

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## Annotated Marked-up Drawings

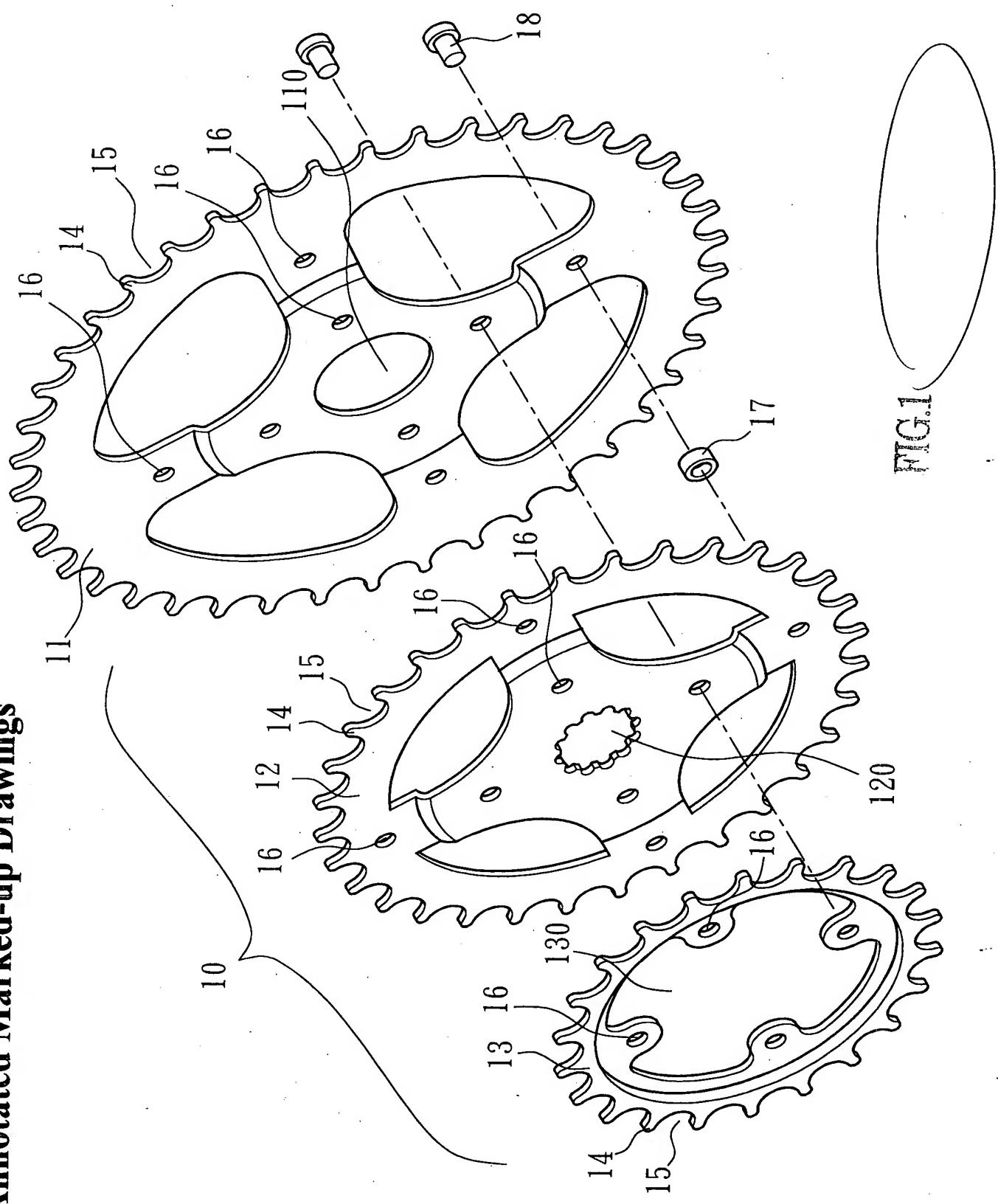


FIG.1

Annotated Marked-up Drawings

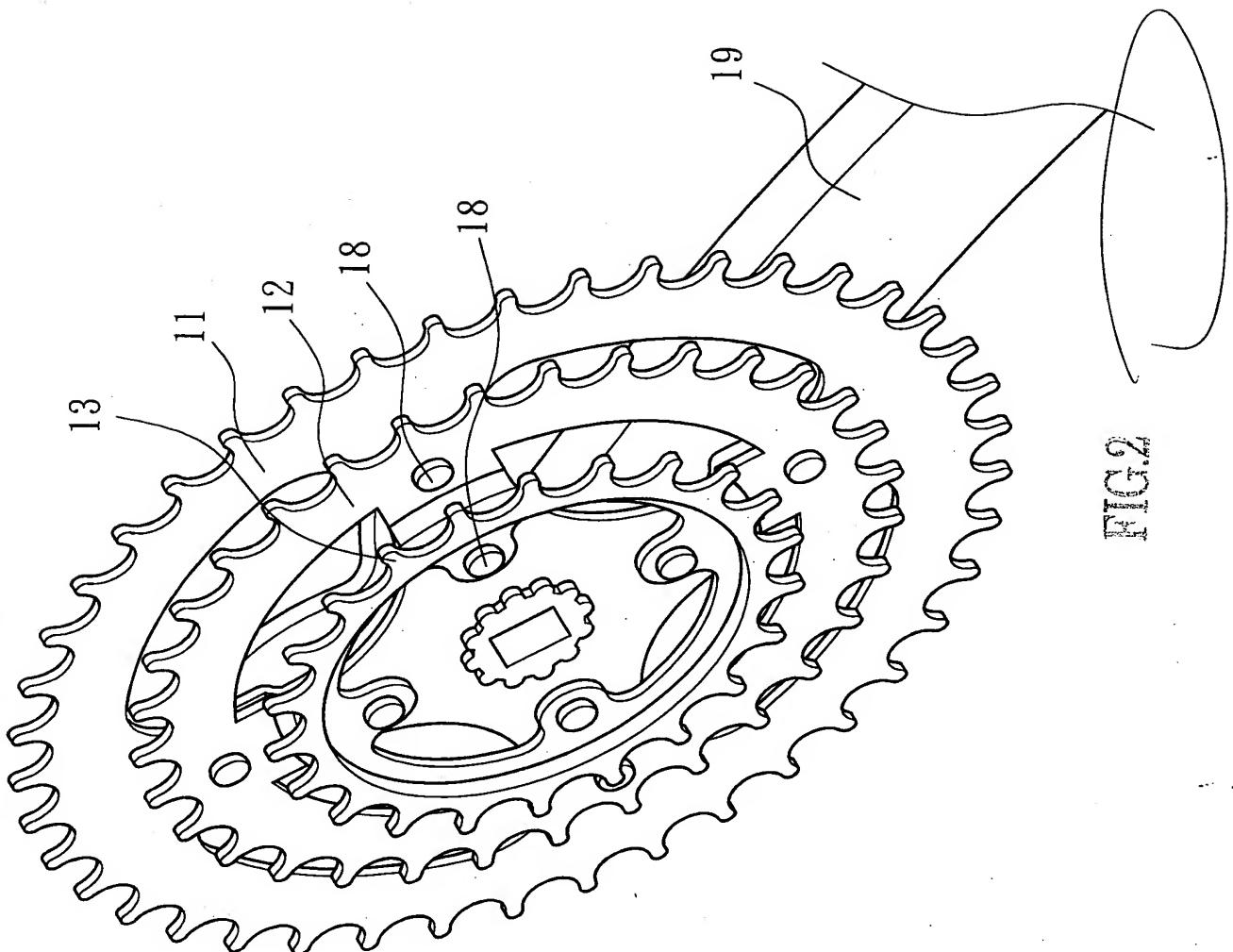


FIG.2

# Annotated Marked-up Drawings

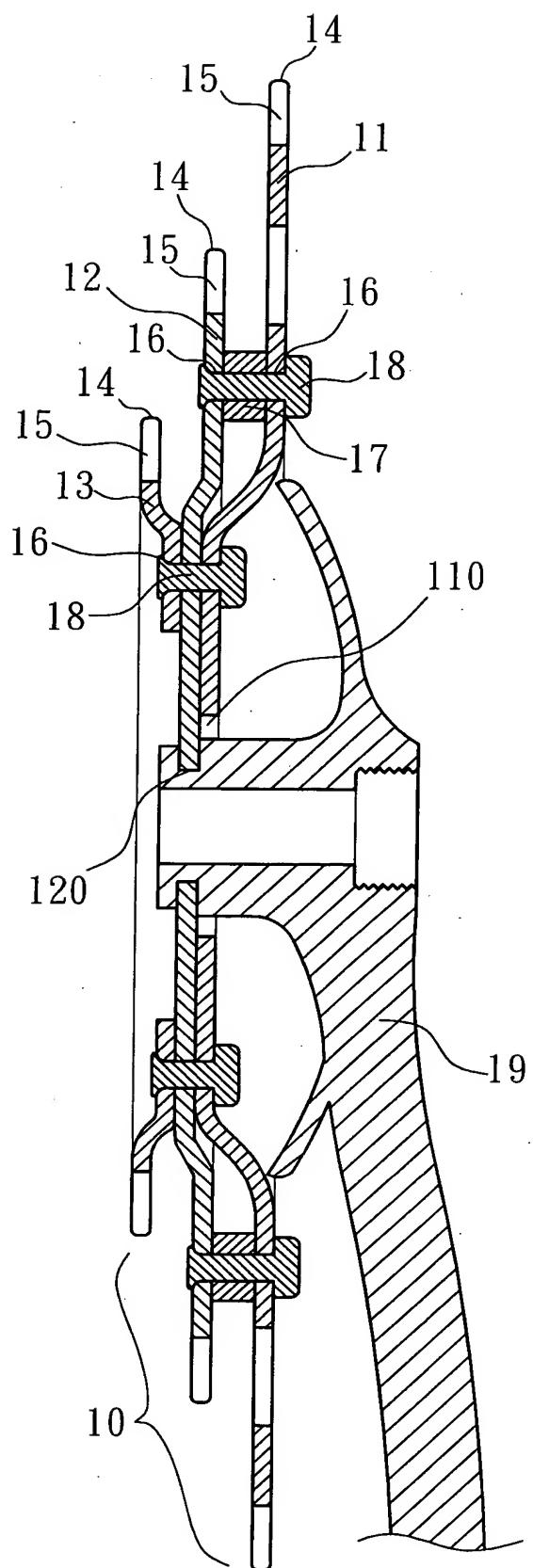


FIG.3

## Annotated Marked-up Drawings

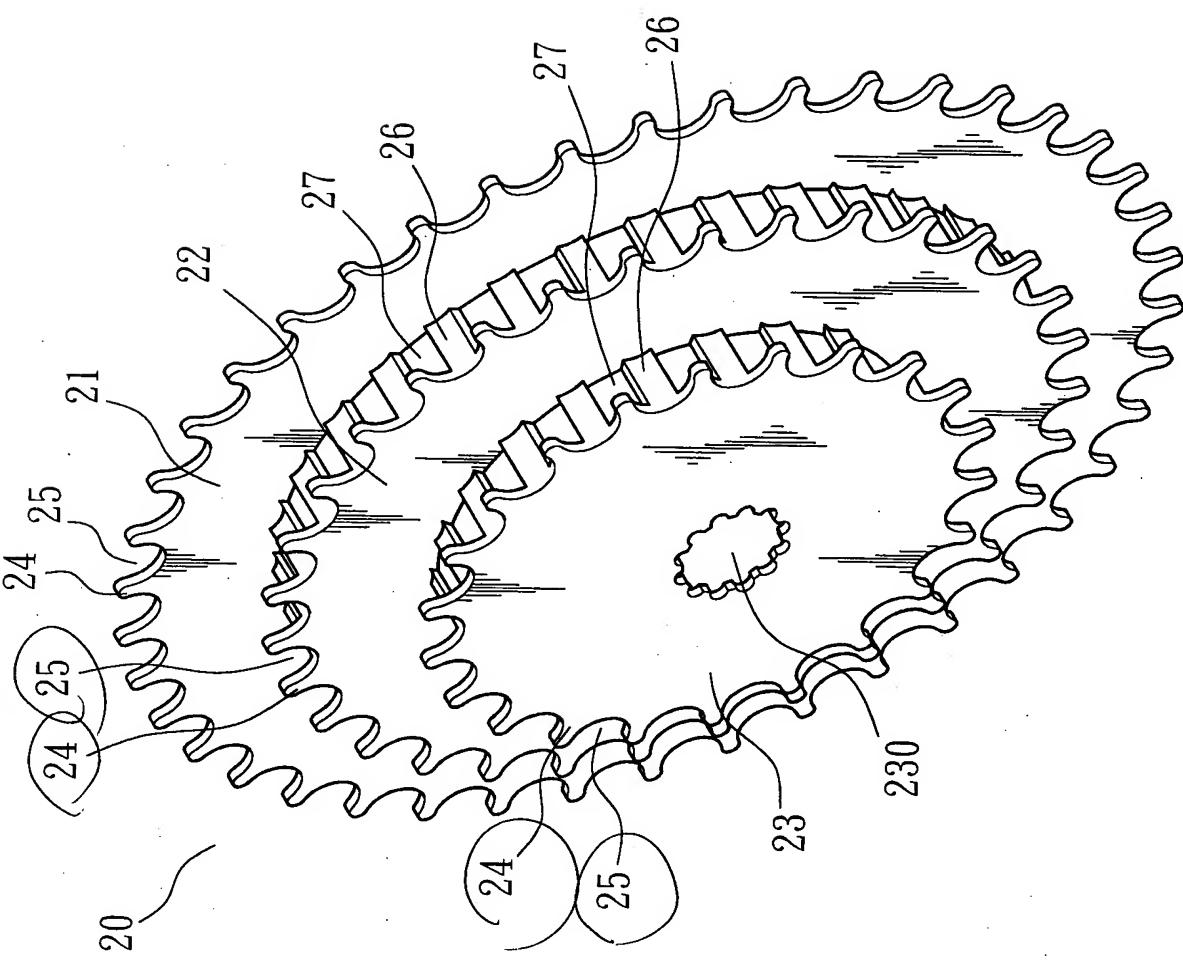


FIG.4

Annotated Marked-up Drawings

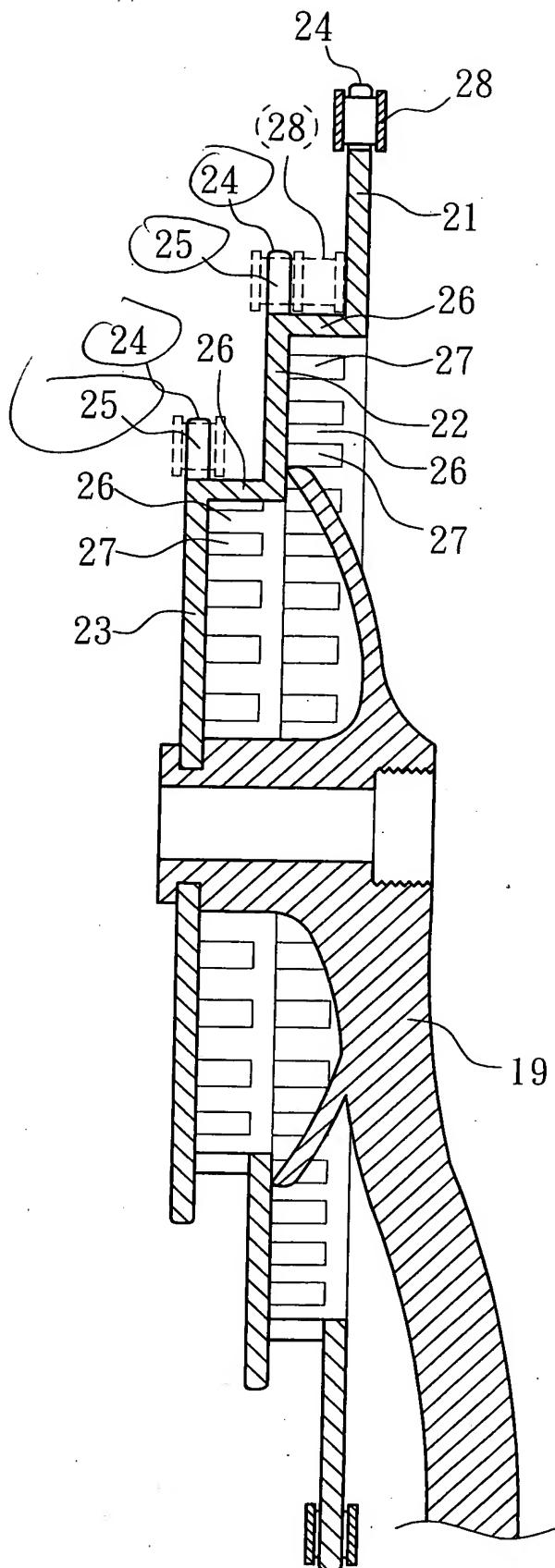


FIG.5